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NOTICE OF ALLOWANCE AND FEE(S) DUE

23872

7590

11/24/2010

MCGLEW & TUTTLE, PC P.O. BOX 9227 SCARBOROUGH STATION SCARBOROUGH, NY 10510-9227 EXAMINER

NGUYEN, HUNG D

ART UNIT PAPER NUMBER

3742 DATE MAILED: 11/24/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,332	01/19/2006	Peter Rippl	72093	8094

TITLE OF INVENTION: METHOD AND DEVICE FOR THE LASER MACHINING OF WORKPIECES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/24/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

indicated unless correct maintenance fee notifica	ed below or directed ot	herwise in Block 1, by (a) specifying a new co	rrespondence addres	s; and/o	r (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPOND]	Fee(s) Transmittal. The papers. Each addition	his certi al pape	ficate cannot be used f	or domestic mailings of the for any other accompanying ont or formal drawing, must		
MCGLEW & ' P.O. BOX 9227 SCARBOROUG	GH STATION	,	hereby certify that to states Postal Service ddressed to the Ma	his Fee with su il Stop	e of Mailing or Trans (s) Transmittal is being fficient postage for fir ISSUE FEE address (1) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile	
SCARBOROUG	GH, NY 10510-922'	7					(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	02/24/2011
EXAM		ART UNIT	CLASS-SUBCLASS				
NGUYEN 1. Change of correspond	, HUNG D	3742	219-121780	e patent front page, l			
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, alteri (2) the name of a s registered attorney 2 registered patent listed, no name will	the names of up to 3 registered patent attorneys gents OR, alternatively, the name of a single firm (having as a member a stered attorney or agent) and the names of up to gistered patent attorneys or agents. If no name is d, no name will be printed.			
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is iden th in 37 CFR 3.11. Com GNEE	pletion of this form is NO	data will appear on th T a substitute for filing (B) RESIDENCE: (C	e patent. If an assig an assignment. TY and STATE OR	COUN	TRY)	ocument has been filed for
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4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	itus (from status indicate		□ h Applicant is no	langar alaiming SMA	ALL EN	TITY status. See 37 C	EP 1 27(a)(2)
NOTE: The Issue Fee an	nd Publication Fee (if red		d from anyone other th	-			ne assignee or other party in
				Date			
Authorized Signature Typed or printed name							
This collection of inform	nation is required by 37 (CFR 1.311. The information	on is required to obtain	or retain a benefit by	the pub	olic which is to file (and	d by the USPTO to process)
an application Confiden	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DO	SILS C 122 and 37 CER	1.14 This collection is	ectimated to take 12	minute	e to complete includir	ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/565,332 01/19/2006		Peter Rippl	72093 8094		
23872 75	23872 7590 11/24/2010		EXAMINER		
MCGLEW & TUTTLE, PC			NGUYEN, HUNG D		
P.O. BOX 9227			ART UNIT	PAPER NUMBER	
SCARBOROUGH SCARBOROUGH	=	3742 DATE MAILED: 11/24/201	0		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 653 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 653 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	Application No.	Applicant(s)				
Notice of Allowability	10/565,332	RIPPL, PETER				
Notice of Allowability	Examiner	Art Unit				
	HUNG NGUYEN	3742				
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicat GHTS. This application is subject	application. If not included ion will be mailed in due course. THIS				
1. This communication is responsive to <u>9/21/2010</u> .						
2. X The allowed claim(s) is/are <u>1-5,8,10-14,16-19,22 and 24-36</u>	<u>0</u> .					
 Acknowledgment is made of a claim for foreign priority una)	been received. been received in Application No.					
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the						
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informa	I Patent Application				
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa	• •				
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail I 7. ⊠ Examiner's Amer	Date				
Paper No./Mail Date						
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's State 9. □ Other	ment of Reasons for Allowance				
/HUNG NGUYEN/						
Examiner, Art Unit 3742 11/18/2010						

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John James McGlew on 11/18/2010.

The application has been amended as follows:

In claim 14, line 23, delete "the the displacing motion", and insert -- the displacing motion --

In claim 30, line 1, delete "claim 30", and insert -- claim 29--

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cheng et al. (US Pub 2003/0171847) discloses a method of controlling a robot through a singularity; Menin (US Pat. 7,560,659) discloses a robot-aided remote laser welding with simplified control of focusing direction of laser beam; Menin et al. (US Pub 2005/0150876) discloses a method and device for laser welding; Kawai (US Pub. 2006/0157455) discloses a laser welding system and laser control method; Akeel (US Pat. 4,638,143) discloses a robot-laser system.

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REASON FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowance: allowance of claim 1-5, 8, 10-14, 16-19, 22 and 24-30 is indicated because the prior art of record does not show or suggest "superimposing a compensating motion of the laser beam to the displacing motion during the displacing motion with the compensating motion being at least partially oppositely directed to the displacing motion wherein the compensating motion of the laser beam is performed by a pivoting motion of the manipulator hand about a hand axis; and continuously displacing the laser tool with the displacing motion of the manipulator during an intermittent machining of the workpiece in which machining phases and transport phases alternate" as recited in claim 1; "said motion takes place during the machining operation and is directed opposite to the displacing motion and is superimposed to the displacing motion and includes superimposing the at least partially oppositely directed compensating motion of the laser beam to the displacing motion during the machining operation, said laser tool being controlled to provide intermittent machining and each of the multiaxial mechanical manipulator the manipulator hand and the laser tool being controlled for continuously displacing the laser tool with the displacing motion during intermittent machining of the workpiece with the displacing motion and the at least partially oppositely directed compensating motion in which machining phases and transport phases alternate" as recited in claim 14; "superimposing a compensating motion of the laser beam to the displacing motion during the displacing motion with the compensating motion being at least partially oppositely directed to the displacing motion wherein the compensating motion of the

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laser beam is performed by a pivoting motion of the manipulator hand about one hand axis providing machining with the laser machining location moving at a machining velocity" as recited in claim 24; and "controlling said manipulator hand independently from the displacing motion for superimposing a compensating motion of the laser beam to the displacing motion during the displacing motion with the compensating motion being at least partially oppositely directed to the displacing motion" as recited in claim 29.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG NGUYEN whose telephone number is (571)270-7828. The examiner can normally be reached on Monday-Friday, 9M-6PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on (571)272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HUNG NGUYEN/ Examiner, Art Unit 3742 11/18/2010 /Quang T Van/ Primary Examiner, Art Unit 3742